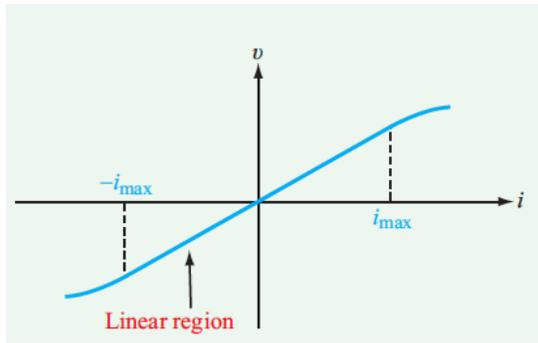


**Concept Question 2-4:** What is meant by the linear region of a resistor? Is it related to its power rating?

The linear region refers to the range over which the voltage across the resistor is linearly related to the current flowing through it.



The **power rating** of a resistor, which is not directly related to the resistor's linear region, defines the maximum continuous power level that the resistor can dissipate without getting damaged. Excessive heat can cause melting, smoke, and even fire.